

Exercise-linked FNDC5/irisin rescues synaptic plasticity and memory
defects in Alzheimer's models

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Supplementary Material

Supplementary Tables

Supplementary Table 1. Patient demographics for neuropathology studies.

Case #	Gender	Age	MMSE	Braak Stage	PMI (h)	Brain Weight (g)
<u>Controls (MMSE 25-30)</u>						
1070	M	82	29	1	2,3	1290
1131	F	80	28	1	2,3	1020
1142	M	92	30	0	3,3	1200
1151	F	88	29	2	2,3	1070
1184	F	92	29	2	3	1010
1268	F	68	30	1	4	1030
1283	M	90	30	2	3,25	1220
1280	M	86	28	2	4	1125
1281	F	75	28	5	3,58	1370
1225	F	82	26	5	5	1200
1156	F	100	26	1	2,25	1320
<u>Early AD (MMSE 20-24)</u>						
667	F	85	20	6	3,2	1290
730	F	83	23	4	1	1250
736	F	91	20	5	3	1070
1059	M	93	21	4	4,3	1230
1077	M	87	21	3	2,3	1170
1228	M	92	24	5	1,67	1060
1176	F	85	23	1	2,25	1170

<u>Late AD (MMSE 13-17)</u>						
1144	M	85	16	6	2,8	1020
1168	F	84	13,5	6	3,8	1130
1185	F	79	16	6	2,9	1100
1215	F	91	13	5	3	1160
1272	M	95	17	5	2,10	1128
1270	M	93	15	2	3	1210
1279	F	98	17	5	3,33	991

Supplementary Table 1. Patient demographics for neuropathology studies.

Patients were categorized by mini-mental state examination (MMSE) scores. This supplementary table contains information about age, sex, tau pathology (Braak stage), post-mortem interval (PMI) and brain weight.

Supplementary Table 2. Primer sequences used in qPCR studies.

Target	Forward Primer	Reverse Primer
<i>Actb</i> (h)	5'GCACCCAGCACAAATGAAG3'	5'CTTGCTGATCCACATCTGC3'
<i>Actb</i> (r)	5'GTCTTCCCCTCCATCGTG3'	5'AGGATGCCTCTCTGCTCTG3'
<i>Actb</i> (m)	5'TGTGACGTTGACATCCGTAAA3'	5'GTACTTGCCTCAGGAGGAG3'
<i>Fndc5</i> (h)	5'AAGCACACAAGGACTGACTCAAGC3'	5'CAGTCCTTGATGGCTGGAT3'
<i>Fndc5</i> (r)	5'GAGTGCATCAGAGACCAGCA3'	5'CGGATGTGTGTTGGACAATC3'
<i>Fndc5</i> (m)	5'GGACTCTTGGAAAACACCACTG3'	5'TCCACACAGATGATCTCACCAC3'
<i>Ppara</i> (m)	5'GATGTCACACAATGCAATTG3'	5'GGTAGGCTTCGTGGATTCTCT3'
<i>Pparg</i> (m)	5'GGAAGACCCTCGCATTCTT3'	5'TCGCACTTGGTATTCTGGAG3'
<i>Ppargc1a</i> (m)	5'ATGAATGCAGCGGTCTTAGC3'	5'ACAAATGGCAGGGTTGTC3'

Supplementary Table 2. Primer sequences used in qPCR studies. List of oligonucleotides used in quantitative PCR assays in our study. Abbreviations: *Actb*, β-actin; *Fndc5*, fibronectin type III domain-containing protein 5; *Ppara*, peroxisome proliferator-activated receptor alpha; *Pparg*, peroxisome proliferator-activated receptor gamma; *Ppargc1a*, PPAR gamma-coactivator 1 alpha; h, human; m, mouse; r, rat.